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EXAMINER

LUONG, ALAN H

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PAPER

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

Office Action Summary	Application No. 10/666,371	Applicant(s) LEE ET AL.	
	Examiner ALAN LUONG	Art Unit 2427	

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

- 1) ☒ Responsive to communication(s) filed on 06 October 2009.
- 2a) ☒ This action is **FINAL**. 2b) ☐ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

- 4) ☒ Claim(s) 1-18 and 25-30 is/are pending in the application.
- 4a) Of the above claim(s) _____ is/are withdrawn from consideration.
- 5) ☐ Claim(s) _____ is/are allowed.
- 6) ☒ Claim(s) 1-18 and 25-30 is/are rejected.
- 7) ☐ Claim(s) _____ is/are objected to.
- 8) ☐ Claim(s) _____ are subject to restriction and/or election requirement.

Application Papers

- 9) ☐ The specification is objected to by the Examiner.
- 10) ☐ The drawing(s) filed on _____ is/are: a) ☐ accepted or b) ☐ objected to by the Examiner.
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

Priority under 35 U.S.C. § 119

- 12) ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☐ All b) ☐ Some * c) ☐ None of:
1. ☐ Certified copies of the priority documents have been received.
 2. ☐ Certified copies of the priority documents have been received in Application No. _____.
 3. ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

* See the attached detailed Office action for a list of the certified copies not received.

Attachment(s)

- | | |
|--|---|
| 1) <input checked="" type="checkbox"/> Notice of References Cited (PTO-892) | 4) <input type="checkbox"/> Interview Summary (PTO-413) |
| 2) <input type="checkbox"/> Notice of Draftsperson's Patent Drawing Review (PTO-948) | Paper No(s)/Mail Date. _____ |
| 3) <input type="checkbox"/> Information Disclosure Statement(s) (PTO/SB/08) | 5) <input type="checkbox"/> Notice of Informal Patent Application |
| Paper No(s)/Mail Date _____ | 6) <input type="checkbox"/> Other: _____ |

DETAILED ACTION

Claim Rejections - 35 USC § 103

1. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negated by the manner in which the invention was made.

2. Claims **1-3, 6-7, 10-12, 15-16 and 25-30** are rejected under 35 U.S.C. 103(a) as being unpatentable over US Patent No.7,055167 issued to **Masters** (hereinafter Master); in view of US Pat 6,324,338 to **Wood** et al. and further in view of WO 00/40021 to Edwin **Montie** et al. (hereinafter Montie);

Regarding to claim 1: Fig. 3 of Master illustrates a system [1] support “a personal channel service providing method for outputting a television (TV) program preferred by a user, which is referred to as a preferred program, which is referred to as a preferred duration, the method comprising the steps of:

(a) a PVR [4] “**receives content description data**” at connection (14a of Fig. 3) **of a program to be broadcasted**” from broadcast source [2] as “**a TV network**” and responses “**instance description data**” at connection (14b of Fig. 3) of a program to the broadcast source [2]. (see Master, Fig. 1, 3 col. 2, line 53 to col. 3, line 13 and col. 6 lines 9-23).

(b) Fig. 4 of Master illustrates the viewing menu 40 on display [6] that **“determines the preferred duration and the preferred program in the preferred duration”** into submenu [44]” **based on usage history of the PDR”** [4] (see Master, Fig. 4, col. 7 line 44 to col. 8 line 30) and Fig. 2 of Master shows the procedure selectively updates the viewing menu 40 upon viewer input on the predetermined day of the week to provide for a history of broadcast programs the viewer actually selected on the predetermined day of the week that meets **“updating the instance description data to include the preferred duration and the preferred program”**(see Master, steps 210-214 of Fig. 2 col. 5 lines 12-26).

However, Master reference is silent with “a personal channel of a personal digital recorder beginning at a time preferred by the user, c) outputting to the personal channel the preferred program at the preferred duration; wherein the personal channel is for providing the preferred program listed in the EPG to the user and generating an electronic program guide for informing the user that the preferred program is outputted on a personal channel at the preferred duration based on the updated instance description data”

In an analogous art directed toward a similar problem namely improving the results from a personal channel of a personal digital recorder (PDR) [4] beginning at a time preferred by the user, and (c) outputting to the personal channel the preferred program at the preferred duration wherein the personal channel is for providing the preferred program listed in the EPG to the user. Wood ,the same field endeavor,

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teaches **a personal channel of a personal digital recorder** (i.e. (VDR) of Fig. 1) **beginning at a time preferred by the user** (i.e. Fig. 9 user can watch “Scooby Doo” in **a time preferred by the user** and can record it on **Personal Channel** which is created) **(Wood, col. 5 lines 52-65, col. 7 lines 1-26)**. Fig. 10 of Wood illustrates P100, P101, and P102 as **Personal Channels of the preferred program** (i.e. “Friends”, “Tonight”, and “Science” Shows respectively) corresponding to **the preferred duration** is displayed on channel guide, *wherein the personal channel is for providing the preferred program (i.e. retrieving stored programs from storage [105]) listed in the EPG to the user (Wood, col. 7 lines 27-38)* meets the scope of *(c) outputting to the personal channel the preferred program at the preferred duration wherein the personal channel is for providing the preferred program listed in the EPG to the user*. Therefore, it would have been obvious to a person having ordinary skill in the art at the time of the invention was made to modify a personal channel service of Master including the personal channel is for providing the preferred program listed in the EPG to the user as taught by Wood, in order to provide sufficient integration of the channel guides with the record and playback capabilities of video data recorders. **(Wood, col. 1 lines 53-55)**

However, neither Master nor Wood teaches *generating an electronic program guide for informing the user that the preferred program is outputted on the personal channel at the preferred duration based on the updated instance description data*

In an analogous art directed toward a similar problem namely improving the results from generating an electronic program guide. Fig. 1 of Montie illustrates a

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receiver apparatus includes EPG module [14] generates an on-screen overview programs stored in the memory [11] can be accessed by a virtual channel module [15] for creating the virtual channel based on a personal program schedule that is composed by the schedule module [16] (see **Montie, page 4, line 10-page 6 line 18**) meets the limitation of “**generating an electronic program guide**” for combining with Master and Wood references for teaching “**informing the user that the preferred program is outputted on the personal channel at the preferred duration based on the updated instance description data**”. At the time of the invention, it would have been obvious to a person having ordinary skill in the art to combine EPG module **for generating an electronic program guide** as taught by Montie with “**informing the user that the preferred program is outputted on a personal channel at the preferred duration based on the updated instance description data**” as taught by Master and Wood, in order to provide a personal reproduction schedule of a subset of the stored programs.(Montie, Abstract)

Regarding to claim 2. Masters disclose the method as recited in claim 1; also discloses wherein the step b) includes the steps of:

e) selecting the preferred duration, such as day and time(TUESDAY, 10PM), genre preferred in the preferred duration, which is referred to as a preferred genre (CH7 FRASIER) and a predetermined number of preferred program titles (CH 11 NEWS) based on the usage history of the PDR (as discussion in claim 1-b), and generating user preference data (view menu 40) to include the preferred duration (Submenu 42: Day/Segment), the preferred genre (submenu 44: category name or

genre), and the preferred program titles (submenu 44:channel 2 news); (**Master, see Fig. 4 col. 7 line 44 to col. 8 line 49**)

f) if the preferred duration is for watching a program stored in the PDR (**col. 8, lines 31-38**), extracting group information of a program title that belong to the preferred genre among the preferred program titles based on the content description data (**Master, col. 8, lines 50-58 and Fig.4**); and

g) determining a program following a most recently watched program among the programs that belong to the group as the preferred program in the preferred duration; **see Master, col. 8 line 50 to col. 9 line 13**)

Regarding to **claim 3**: Masters discloses the method as recited in claim 2, wherein the preferred duration, such as day and time, is selected based on total duration of programs outputted by the PDR in particular time duration. (Limitation of claim 1 of **Master, col. 9 lines 15-32**).

Regarding to **claim 6**: Masters discloses the method as recited in claim 1; further discloses wherein the step b) includes the steps of:

h) selecting the preferred duration, such as day and time, preferred genre in the preferred duration, and a predetermined number of preferred program titles based on the usage history of the PDR (see claim 1 discussion), and generating user preference data to include the preferred duration, the preferred genre, and the preferred program titles;(same ground rejection of claim 2-e)

i) if the preferred duration is for watching a program broadcasted in real-time (**Master , col. 8 lines 38-49**), extracting a list of real-time broadcasting programs from the instance description data (**Col. 8 lines 50-58**); and

j) determining a program that belongs to the preferred genre among the programs on the list as the preferred program in the preferred duration. (Same ground rejection of claim 2-g).

Regarding to **claim 7**: same claim 3 ground rejection.

Regarding to **claim 10**: Master discloses a personal channel service providing apparatus (PDR 4 of Fig. 1, 3; **col. 2 lines 30- 46**) for outputting a TV program preferred by a user, which is referred to as a preferred program, through a personal channel beginning at a time preferred by the user, which is referred to as a preferred duration, the apparatus [4] comprises: “ a memory portion” management module [8] is implemented in connection with a central processor “for storing a control program” to control PVR [4]; (see Master, **Figs.1, 3; col. 6 lines 44-61**), “a database” storage[10] “stores instance description data , usage history of the personal channel service providing apparatus”; (**col. 6 line 62 to col.7 line 17**) and “ a display portion” [6] is connected with display generator [18] inside PDR[4] by [12] “for outputting an EPG” information [26] from management module [8]; (**Master, Fig. 3, col. 5 lines 28-61**). However, Master reference is silent with “a processing portion for updating the instance description data based on the user preference data and generating an EPG which informs the user that the preferred program is outputted through the personal channel at

the preferred duration based on the updated instance description data, the processing portion being connected to the memory portion, the database, and the display portion"

In an analogous art directed toward a similar problem namely improving the results from the apparatus includes a processing portion is connected to the memory portion, the database, and the display portion for updating the instance description data, outputting to the personal channel the preferred program at the preferred duration wherein the personal channel is for providing the preferred program listed in the EPG to the user.

Fig. 1 of Wood illustrates **"a processing portion"** includes a processor [101] being connected to the **memory portion** (i.e. video storage [105]), the channel guide **database** [103] and the **display portion** (i.e. video output [107]) (**see Wood, col. 2 lines 36-45,**); wherein user uses the user interface [108] matches the user criteria data [from [104] with channel guide information from channel guide data base source [109]**"for updating the instance description data based on the user preference data"** (**see Wood, col. 2, line 56-col. 3 line 27**) and Fig. 10 of Wood illustrates P100, P101, and P102 as **Personal Channels of the preferred program** (i.e. "Friends", "Tonight", and "Science" Shows respectively) corresponding to **the preferred duration** is displayed on channel guide, ***wherein the personal channel is for providing the preferred program (i.e. retrieving stored programs from storage [105]) listed in the EPG to the user (Wood, col. 7 lines 27-38)*** meets the scope of **(c) outputting to the personal channel the preferred program at the preferred duration wherein the personal channel is for providing the preferred program listed in the EPG to the**

user wherein the personal channel is for providing the preferred program listed in the EPG to the user. Therefore, it would have been obvious to a person having ordinary skill in the art at the time of the invention was made to modify a personal channel service of Master including the personal channel is for providing the preferred program listed in the EPG to the user as taught by Wood, in order to provide sufficient integration of the channel guides with the record and playback capabilities of video data recorders. **(Wood, col. 1 lines 53-55)**

However, neither Master nor Wood teaches *generating an electronic program guide for informing the user that the preferred program is outputted on the personal channel at the preferred duration based on the updated instance description data.*

Fig. 1 of Montie illustrates the EPG module [14] is **“generating an EPG which informs the user that the preferred program is outputted through the personal channel at the preferred duration based on the updated instance description data”** (see **Montie, page 3 lines 23-33 and page 5, lines 15-25**). At the time of the invention, it would have been obvious to one with ordinary skill in the art to combine EPG module for generating EPG as taught by Montie with the PDR for personal channel service with a processing portion as taught by Master and Wood; the above combination informs the user that the preferred program is outputted through the personal channel at the preferred duration based on the updated instance description data.

Regarding to **claim 11**: same claim 2 ground rejection.

Regarding to **claim 12**: same claim 3 ground rejection.

Regarding to **claim 15**: same claim 6 ground rejection.

Regarding to **claim 16**: same claim 3 ground rejection.

Regarding to claim 25. Fig. 1 of Masters illustrates a personal channel service providing apparatus (i.e. PDR 4 of Fig. 1, 3; **col. 2 lines 30- 46**) comprising:

a collecting unit [8] of PVR [4] “receives content description data of broadcasting programs” at connection (14a of Fig. 3)” from broadcast source [2] and responses “instance description data of broadcasting programs” at connection (14b of Fig. 3) (see Master, Fig. 1, 3 col. 2, line 53 to col. 3, line 13 and col. 6 lines 9-23).

Fig. 3 of Master illustrates a receiver apparatus PVR 4; includes **a user profile unit [30] for providing user preference data to the collecting unit;**(i.e. the PVR 4 is configured to receive viewer inputs [30] via the remote control 16); *reads on (col. 5 lines 35-37)*

determining a broadcasting program based on user preference data, the content description data (i.e. recorded program is transmitted from service provider [2] of Fig. 3) (col. 2 lines 58-67) and instance description data (i.e. the current watching program at user's EPG [26] of Fig. 3) (see Fig. 3, col. 5 line 28 to col. 7 line 43; Fig. 4 col. 7 line 53 to col. 8 line 19); and updating the instance description data to include information of the determined broadcasting program (see Master, steps 210-214 of Fig. 2 col. 5 lines 12-26);

However, Master is silent with *a personal channel controller for generating a personal channel and generating an electronic program guide (EPG) based on the content*

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description data and the updated instance description data; *wherein the personal channel is for providing the preferred program listed in the EPG to the user*

In an analogous art directed toward a similar problem namely improving the results from *a personal channel controller for generating a personal channel outputting to the personal channel the preferred program at the preferred duration; wherein the personal channel is for providing the preferred program listed in the EPG to the user*

Fig. 1 of Wood illustrates “**a personal channel controller**” as a processor [101] being connected to the **memory portion** (i.e. video storage [105]), the channel guide **database** [103] and the **display portion** (i.e. video output [107]) **for generating a personal channel** (see Wood, col. 2 lines 36-45,); (i.e. Fig. 9 user can watch “Scooby Doo” in a time preferred by the user and can record it on **Personal Channel** which is created) (Wood, col. 5 lines 52-65, col. 7 lines 1-26). wherein user uses the user interface [108] matches the user criteria data [from [104] with channel guide information from channel guide data base source [109]“**for updating the instance description data based on the user preference data**” (see Wood, col. 2, line 56-col. 3 line 27) and Fig. 10 of Wood illustrates P100, P101, and P102 as **Personal Channels of the preferred program** (i.e. “Friends”, “Tonight”, and “Science” Shows respectively) corresponding to **the preferred duration** is displayed on channel guide, *wherein the personal channel is for providing the preferred program (i.e. retrieving stored programs from storage [105]) listed in the EPG to the user* (Wood, col. 7 lines 27-38) meets the scope of (c) **outputting to the personal channel the preferred program at the preferred duration wherein the personal channel is for providing the preferred**

program listed in the EPG to the user wherein the personal channel is for providing the preferred program listed in the EPG to the user. Therefore, it would have been obvious to a person having ordinary skill in the art at the time of the invention was made to modify a personal channel service of Master including the personal channel is for providing the preferred program listed in the EPG to the user as taught by Wood, in order to provide sufficient integration of the channel guides with the record and playback capabilities of video data recorders.**(Wood, col. 1 lines 53-55)**

However, neither Master nor Wood teaches *generating* an electronic program guide (EPG) based on the content description data and the updated instance description data

In an analogous art directed toward a similar problem namely improving the results from *generating* an electronic program guide (EPG) based on the content description data and the updated instance description data

Fig. 1 of Montie illustrates **EPG module** [14] generates an on-screen overview programs stored in the memory [11] can be accessed by a virtual channel module [15] for **generating an electronic program guide** based on a personal program schedule that is composed by the schedule module [16] that meets “**generating an electronic program guide** for informing the user that the preferred program is outputted on the virtual channel **at the preferred duration based on the updated instance description data**” (see Montie, page 4, line 10-page 6 line 18) meets the limitation of “**generating an electronic program guide (EPG) based on the content description data and the updated instance description data**”. At the time of the invention, it would have been

obvious to a person having ordinary skill in the art to combine EPG module as taught by Montie with the personal channel service including personal channel listing on EPG of Master and Wood, to generate EPG information for supporting the personal reproduction schedule.

Regarding to claim 26. the apparatus as recited in claim 25, Masters teaches the user preference data is updated in accordance with user history information (sub menu 42, 44 in view menu 40 of Fig. 4; see **Master, col. 8 lines 3- 30**).

Regarding to claim 27. the apparatus as recited in claim 25, Masters also teaches the user history information includes information of user action (*based on sub menu 42, 44 in view menu 40 of Fig. 4; user can Edit or Execute the viewing menu*) when the user reviews the broadcasting program in the EPG. (See **Master, col. 8 line 31-col. 9 line 13**).

Regarding to claim 28: the apparatus as recited in claim 25, Masters further teaches the content description data includes program information and group information. (*sub menu 44 contains channels and category group*; see **Master, Fig. 4 col. 8 lines 3- 30**).

Regarding to claim 29. the apparatus as recited in claim 25, Masters further teaches wherein the instance description data includes program location and service information (see **Fig. 3 col. 5 line 28 to col. 7 line 43**).

Regarding to claim 30: the apparatus as recited in claim 25, Montie also teaches “**wherein the user preference data includes a user's preferred day and**

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time (*i.e. a personal reproduction schedule or user selective schedule*), **genre, or title** (*i.e. user profile*)". (see **page 2 lines 4-23**)

3. Claims **4-5, 8-9, 13-14 and 17-18** are rejected under 35 U.S.C. 103(a) as being unpatentable over **Masters, Wood and Montie**; in view of US Patent No. 7,212,730 (Hereinafter US'730) issued to **Boston** et al.

Regarding to claim 4: Masters discloses the method as recited in claim 2; but fails to teach wherein a genre of a program that occupies the longest duration among the programs.

In an analogous art directed toward a similar problem namely improving the results from a genre of a program. Boston, the same field endeavor, teaches wherein a genre of a program that occupies the longest duration among the programs outputted by the PDR in the preferred duration is selected as the preferred genre. (Genre field 430 is used to identify the types of programs the user enjoys watching; (see **col. 6 lines 20-38**); and Metadata 540 maintained for the program may include the program title 550, the length of program 565, the genre of the program 580. The metadata is searchable by the DVR in selecting a program that based on the user's preferences; that user is likely to enjoy watching; (**see Boston, col. 6 lines 44-54 and Fig. 4**).Therefore, it would have been obvious to one of ordinary skill in the art at the time of the invention was made to modify a personal channel service on EPG of Masters, Wood and Montie

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with a metadata maintained for the length of a genre program as taught by Boston; in order to create a personal channel based on category's user.

Regarding to **claim 5**: Boston discloses the method as recited in claim 2, wherein the preferred program titles are selected based on the program duration outputted by the PDR, the EPG, and a frequency of program information exposure. **(Boston, Fig.19 col. 16 lines 19-62 and Fig. 25 col. 20 lines 36 to col. 21 line 29).**

Regarding to claim 8: same ground rejection of claim 4.

Regarding to claim 9: same ground rejection of claim 5.

Regarding to claim 13: same claim 4 ground rejection.

Regarding to claim 14: same claim 5 ground rejection.

Regarding to claim 17: same claim 4 ground rejection.

Regarding to claim 18: same claim 5 ground rejection.

Response to Arguments

4. Applicant's arguments with respect to claims 1-18, 25-30 have been considered but are moot in view of the new ground(s) of rejection.

Conclusion

5. **THIS ACTION IS MADE FINAL.** Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the mailing date of this final action.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to ALAN LUONG whose telephone number is (571)270-5091. The examiner can normally be reached on Mon.-Thurs., 8:00am-5pm EST.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Scott Beliveau can be reached on (571) 272-7343. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

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Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

/ALAN LUONG/
Examiner, Art Unit 2427

/Jason P Salce/
Primary Examiner, Art Unit 2421